

#6.

Hawaiian Explorations.

D<sup>o</sup> 3902 - D<sup>o</sup> 3927.

Hy 4164 - Hy 4186.

April 30 - May 11, 1902.

Next Mr  
Hy 4164  
Dr 3902

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

41164

Date

30 Apr '02.

Machine.

#1

Reel.

Navy.

Turns

298

Cor. +

30

Depth

328 fms

Shot or lead

36 lbs.

Bottom

R. fine br. S.

Bottom temperature

43

No. of thermometer

75233

Cor.

0

Corrected temperature

43-

Air

70

Surface

74

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

7-42.20

7-50.50

0

43.25

49.50

100

44.25

48.40

200

7-45.30

7-47=

298

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Mokapu Id, Molokai. 87° 10' W. 13' 0"

GL HCA H600 246		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*3902* No. *3902* Date *30 Apr. 1902.*  
*Sigsbee* Machine. / Reel. *Navy*  
 Turns *125* Cor. + *13* Depth *138 fms*  
 Shot or lead *36*  
 Bottom *gy S. bo. sh.*  
 Bottom temperature *62*  
 No. of thermometer *98233* Cor. *0*  
 Corrected temperature *62.0*  
 Air *70.6* Surface *74.* Drift *15/10'*  
 Trawl or dredge *Chain trawl.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8:15.50</i>	<i>8:21.00</i>	0	<i>8:41.15</i>	<i>9:31.00</i>
<i>17.10</i>	<i>19.55</i>	100	<i>45.10</i>	<i>26.15</i>
<i>17.30</i>	<i>19:15</i>	<i>125</i>	<i>48.30</i>	<i>27.00</i>
		300	<i>51.45</i>	<i>17.40</i>
		<i>350</i>	<i>53.20</i>	<i>15.30</i>
		<i>400</i>	<i>9:10.00</i>	<i>9.14.00</i>
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Mokapu Id.,  $876^{\circ}30'N$ ,  $94^{\circ}10'$  miles.

OK  
JCS  
/

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
4600	246	
120	233	
4475	13	
	120	
	138	
	3000	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:  
5 sharks caught  
with 2 hooks  
fork remora from sharks.  
Samples come up clear,  
evidently not in bottom.  
Nothing caught whatever.

*Staley*  
 No. *4165 Hy* Date *30 Apr 1902*  
*Sigsbee* Machine. *1* Reel. *Heavy*  
 Turns *332* Cor. + *33* Depth *365 fms*  
 Shot ~~on lead~~ *26*  
 Bottom *fine br. m. s.*  
 Bottom temperature *41.5*  
 No. of thermometer *98233* Cor. *0*  
 Corrected temperature *41.5*  
 Air *73* Surface *74* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.33.50</i>	<i>9.43.10</i>	0		
<i>34.50</i>	<i>42.00</i>	100		
<i>35.50</i>	<i>41.00</i>	200		
<i>36.40</i>	<i>40.00</i>	300		
<i>37.10</i>	<i>39.10</i>	<i>332</i>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*This marks the  
 end of 151  
 3902.*



Nokapu Is / 867°15'N., 97°10'

OK  
JTCB  
in

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
4600	246	
332	213	
4268	33	
	332	
	365	
	<del>3600</del>	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Station 3903* *P. L. 79.*  
 No. *3903* Date *30 Apr 1902*  
*Agassiz* Machine. *1* Reel. *Moog*  
 Turns *649* Cor. + *15* Depth *714 fms*  
~~Shot or lead~~ *32*  
 Bottom *fm. br. m. s. R*  
 Bottom temperature *38.2*  
 No. of thermometer *98233* Cor. *+0.1*  
 Corrected temperature *38.1* *{ N 13° E.*  
 Air *76* Surface *74* Drift *2 10'*  
 Trawl on dredge *9' Tanner with Apron*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10:08.10</i>	<i>10:23.35</i>	<i>0</i>	<i>10:31.45</i>	<i>7:24.30</i>
<i>09.15</i>	<i>22.30</i>	<i>100</i>	<i>35.30</i>	<i>21.30</i>
<i>10.15</i>	<i>21.30</i>	<i>200</i>	<i>39.10</i>	<i>18.00</i>
<i>11.10</i>	<i>20.30</i>	<i>300</i>	<i>42.30</i>	<i>14.10</i>
<i>12.05</i>	<i>19.30</i>	<i>400</i>	<i>46.00</i>	<i>1. 10.20</i>
<i>13.10</i>	<i>18.25</i>	<i>500</i>	<i>49.30</i>	<i>58.30</i>
<i>14.17</i>	<i>17.15</i>	<i>600</i>	<i>52.45</i>	<i>54.30</i>
<i>14.50</i>	<i>16.30</i>	<i>649</i>	<i>56.00</i>	<i>50.35</i>
		<i>800</i>	<i>59.00</i>	<i>43.50</i>
		<i>900</i>	<i>11. 07.30</i>	<i>37.20</i>
		<i>1000</i>	<i>01.40</i>	<i>31.00</i>
		<i>1100</i>	<i>10.30</i>	<i>—</i>
		<i>1200</i>	<i>14.45</i>	<i>15.30</i>
		<i>1300</i>	<i>18.30</i>	<i>07.55</i>
		<i>1400</i>	<i>22.10</i>	<i>12.01.55</i>
		<i>1500</i>	<i>11. 26.00</i>	<i>11.54.00</i>
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

Lost the trawl and apron,  
 bridle and the two shits  
 saved.

There was no sounding at end of  
 this station.

Mokapu Id. - 858° W., 10<sup>S</sup>/10'

CIL  
3000

246  
181  
649  
3951  
649  
- 14

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Long 2, net, after  
and float.  
No catch.

No. *77 4166* Date *20 Apr. 1901*  
 Machine. Reel. *1000*  
 Turns *887* Cor. + *87* Depth *974 fms.*  
 Shot or lead *35 Lbs.*  
 Bottom *lt. bn. M. S. Glob.*  
 Bottom temperature *36.5*  
 No. of thermometer *98233* Cor. *+0.1*  
 Corrected temperature *36.6*  
 Air *74* Surface *75* Drift  
 Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>1.58.40</i>	<i>2. 41.00</i>	0		
<i>15. 45</i>	<i>12. 45</i>	100		
<i>15. 50</i>	<i>12. 10</i>	200		
<i>16. 20</i>	<i>11. 15</i>	300		
<i>16. 25</i>	<i>10. 15</i>	400		
<i>17. 40</i>	<i>09. 15</i>	500		
<i>17. 53</i>	<i>08. 10</i>	600		
<i>18. 01.00</i>	<i>07. 05</i>	700		
<i>02. 10</i>	<i>06. 10</i>	800		
<i>03. 10</i>	<i>2.05.00</i>	<i>887</i>		
		<del>907</del>		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Мокридо, 8470 м. 11 1/2'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
1000	250	3600	
887	189	3700	
3713	87	3800	
	887	3900	
	974	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507. 11

P.L. = 88. -

No. *Hy 4167* Date *30 Apr. '02.*

*Sigsbee* Machine. # *1*. Reel. *Navy*

Turns *131* Cor. + *13*. Depth *144 fms.*

Shot or lead *35 lb*

Bottom *gy. s. sh. bl. b.*

Bottom temperature *59.3*

No. of thermometer *08233* Cor. *-1.1*

Corrected temperature *59.0*

Air *77*. Surface *75*. Drift

Trawl or dredge

P.M. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3.20.15</i>	<i>3.22.10</i>	0		
<i>21.20</i>	<i>23.20</i>	100		
<i>3.21.45</i>	<i>3.22.10</i>	<del>200</del>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Mo. Sep 27, 885° W., 12 1/10

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
4600.	3700	24.
	3800	
	3900	
	4000	14.4 fms.

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Casting 89.7

No. 3904.

Date June 21 '12.

Machine #1 Reel. T. Reel.

Turns 268 Cor. + 27 Depth 295 fms

Shot or lead 36 lbs

Bottom fm. M. S. R

Bottom temperature 43.9°

No. of thermometer 98233 Cor. 0

Corrected temperature 43.9

Air 76 Surface 75 Drift 110'

Trawl or dredge 8' Blake

## SOUNDING WIRE.

DOWN.	UP.	TURNS.
3-52.10	58.05	0
53.20	58.30	100
54.35	57.35	200
55.30	55.45	268
		300
		400
		500
		600
		700
		800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

## DREDGE ROPE.

DOWN.	UP.
4-55.00	57.45
09.	53.10
11.43	49.30
15.00	45. -
17.05	40.35
22.00	36. -
26.00	4. 29.50



Mokapu Is. S 76° W. 13.0'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
4610	3500	7-6
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

Catch =

REMARKS:

Several phormosoma; 1 sea urchin; 1 ophiuran; gorgonian; pennatulid; stenoptyx; macrurus.

A large apiathotenthis-like form found floating dead.

No.

39

Date

Machine.

Reel.

Turns

Cor. +

Depth

20 fms

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

72°

Surface

50

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

3/4 Off Kalaupapa, Laysan Settlement

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
4600	3600	246
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

Catch =

REMARKS:

1 Octopus; many squids;  
many atherinae; many salpae;  
heteromys abundant; several  
crabs; shrimps; 1 stomatopod.

No. *Hy. 4168* Date *1 May**Vanner* Machine. Reel.Turns *138* Cor. + *6* Depth *144 fms*Shot or lead *26 lbs.*Bottom *S. P.*Bottom temperature *60.2*No. of thermometer *78233* Cor. *0*Corrected temperature *60.2*Air *73* Surface *74* Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*8.48.25* *8.54.00*

0

*49.30* *51.40*

100

*8.50.05* *8.50.50**138*  
~~200~~

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Mokapu Id. Molokai Id. S 51° 30' E.

4' 10" mi

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

42.  
138  
358

2.  
6  
138  
144 fms

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *4169* Date *1 May 62*Machine. *Sigsbee* Reel. *1*Turns *382* Cor. + *38* Depth *420 fms.*Shot or lead *35 lbs.*Bottom *fine S. br. M.*Bottom temperature *40.5*No. of thermometer *98233* Cor. *+0.1*Corrected temperature *40.6*Air *73* Surface *74* Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

*382*  
400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

August 10, 1891 S. 10 me

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
496	3700	12
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.S. = 11.3

No.

Date

Machine.

Reel.

Turns 101 1/2 Cor. + 100

Depth 111 1/2 fms.

Shot or lead 60 Lbs.

Bottom Glob. S. br M.

Bottom temperature 36.0 -

No. of thermometer 42200 Cor. - 0.1

Corrected temperature 36.1

Air 74. Surface 74. Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

10. 18.00	11. 11.30	0		
18.45	39.15	100		
19.15	38.25	200		
20.10	37.30	300		
21.00	36.45	400		
21.55	35.55	500		
22.55	34.55	600		
23.45	33.00	700		
24.45	32.00	800		
25.00	30.55	900		
26.55	29.00	1000		
10. 27.40	10. 29.10	1042		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Station 8230 30' E., 8<sup>6</sup>/<sub>10</sub>'

OK  
810.3

4600	246.
1011	146
<hr/> 3558	<hr/> 100
	1042
	<hr/> 1142 fms.

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Hy. 4171*. Date *1st May, '02*.  
*Sigsbee* Machine. *1* Reel. *Navy*.  
 Turns *325* Cor. + *33* Depth *358 fms.*  
 Shot or lead *35 Lbs.*  
 Bottom *fine S. bkn Sh. br M.*  
 Bottom temperature *42° -*  
 No. of thermometer *98233*. Cor. *0*  
 Corrected temperature *42°*  
 Air *72*. Surface *74*. Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.26.45</i>	<i>11.25.55</i>	0		
<i>25.00</i>	<i>34.55</i>	100		
<i>29.20</i>	<i>33.40</i>	200		
<i>30.55</i>	<i>32.50</i>	300		
<i>11.31.00</i>	<i>11.32.20</i>	<i>325</i> <del>400</del>		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Station 857°E. 77°b

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Hy 4172* No. *Hy 4172* Date *1 May '02*  
*Rif. spec* Machine. *1* Reel. *Navy*  
 Turns *120* Cor. + *12* Depth *132 fms.*  
~~Shot~~ *Lead* *36 Lbs.*  
 Bottom *Br. M. S.*  
 Bottom temperature *61°*  
 No. of thermometer *98233* Cor. *0*  
 Corrected temperature  
 Air *74* Surface Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12:00 30</i>	<i>04.50</i>	0		
<i>01.35</i>	<i>03.40</i>	100		
<i>01.50</i>	<i>12:03.20</i>	<i>120</i>		
		<del>400</del>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

70, 6.7.5. 5' 10'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 27.7

No.

Hy 4173

Date

July 11, 1881

Machine.

Reel.

Turns 22 Cor. +

Depth 23 fms

Shot or lead

26 lbs.

Bottom

Gr S. 74°

Bottom temperature

No. of thermometer

95233

Cor. 10.1

Corrected temperature

10.1

Air

74

Surface

75

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

2-10.10

11.10

10.30

10.35

0  
22  
~~400~~

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Hokapu 30/8/79 31.1 12 5/11

ok  
 910.0

496      12  
 27      11  
 — 74

2500  
 2600  
 2700  
 2800  
 2900  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Cast No. 29.2

No. 3906 Date July 1<sup>st</sup> 1902

Machine. Reel.

Turns 60 Cor. + 6 Depth 66 fms

Shot or lead 36 lbs

Bottom gy. S. Co. S.

Bottom temperature 72

No. of thermometer 98233 Cor. 0

Corrected temperature

Air Surface Drift

Trawl or dredge 6 fms. (Chain)

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

3-34-5  
35-

37.30  
36.00

60  
150  
200

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2-42.30  
46.30  
48.30

10.10  
11.30

3. 17.20



Mokapu Id, 874° E., 12° 11' N.

OK  
H.C.

4600

2400

~~4750~~ 72

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200	Catch = Several crabs; 2 sps urchins; 1 munidia; fungia- like coral; bryozoa on urchin species; dentalium.			
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Boiler accumulating spring on  
thrust & overhead gear.  
Block on lower deck, over  
ruling engine.

No. *Hy 2174* Date *May 1st 1901*  
*Light* Machine. / Reel. *Heavy*  
 Turns *57* Cor. + *7* Depth *64*  
 Shot or lead *36 #*  
 Bottom *gy s. c.*  
 Bottom temperature *69.5*  
 No. of thermometer *95210* Cor. *0*  
 Corrected temperature *69.5*  
 Air *75* Surface *74* Drift  
 Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*3. 21.40**25-**23.05**23.50*

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Make lead of previous station.*

OK  
J1000

4600 246

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4175

Date May 1-02

Machine #1

Reel. Heavy

Turns 253 Cor. +

Depth 278 fms

Shot or lead 36 lbs.

Bottom S. Sh. R.

Bottom temperature 44.2

No. of thermometer 95233 Cor. 0

Corrected temperature 44.8

Air 74 Surface 74 Drift

Trawl, or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

53.30 4.00.30  
 54.45 56.10  
 55.50 58.20  
 56.30 57.20

0

100

200

253

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Station 70. 1639. 11/2/10*

*C/K  
J/K*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*a series of 100 fathoms  
50 fathoms  
100 fathoms  
150 fathoms  
200 fathoms  
250 fathoms  
300 fathoms  
350 fathoms  
400 fathoms  
450 fathoms  
500 fathoms  
550 fathoms  
600 fathoms  
650 fathoms  
700 fathoms  
750 fathoms  
800 fathoms  
850 fathoms  
900 fathoms  
950 fathoms  
1000 fathoms*

No. *270* Date *May 17 1881*  
 Machine. Reel.  
 Turns. Cor. + *41* Depth *450*  
 Shot or lead *26*  
 Bottom *gy. s. m. bk. sh.*  
 Bottom temperature *40.1*  
 No. of thermometer *48500* Cor.  
 Corrected temperature  
 Air *74* Surface *70* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4.20.00</i>	<i>4.31.00</i>	0		
		100		
		200		
		300		
		400		
<i>4.30.00</i>	<i>4.32.00</i>	<i>450</i>		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Chapman 30, 1871

OK  
300

400  
419

206  
100  
219  
227

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1

9.

No. *122* Date *July 22*  
 Machine. *Reel.*  
 Turns *84* Cor. + *18* Depth *96 fms*  
 Shot or lead *35*  
 Bottom *gy. bk. s.*  
 Bottom temperature *67*  
 No. of thermometer *48233* Cor. *0*  
 Corrected temperature *67*  
 Air *74* Surface *75* Drift  
 Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



Albatross No. 1000, 198/10

OK  
J.C.

4600

79 6  
23  
85  
3

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Dr. 3907* Date *Jan 0.*  
*Sigsbee* Machine *#1* Reel. *Navy*  
 Turns *286* Cor. + *29* Depth *315 fms.*  
 Shot or lead *36 lbs.*  
 Bottom *fine wh. S. M.*  
 Bottom temperature *43.7*  
 No. of thermometer *98233* Cor. *0*  
 Corrected temperature *43.7*  
 Air *75* Surface *75* Drift *0*  
 Trawl or dredge *8 ft.*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

<i>39.55</i>	<i>40.00</i>	0	<i>39.55</i>	<i>40.00</i>
<i>40.45</i>	<i>45.00</i>	100		
<i>41.25</i>	<i>44.10</i>	200	<i>57.00</i>	<i>44.10</i>
<i>9.42.20</i>	<i>9.42.05</i>	<i>286</i>	<i>10.02.00</i>	<i>10.02.00</i>
		<del>300</del>		
		400	<i>06.00</i>	<i>10.00</i>
		500	<i>09.00</i>	<i>10.00</i>
		600	<i>10.12.00</i>	<i>10.00</i>
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*2 Tangle found over  
 frame to frame.*

Diamond Head Light, N 23° E., 9 6/10'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Clear, cloudy, and misty. Light			
50	gentle breeze from N. E. - S. W.			
100	Sea.			
200	Blake Trawl = Few macrurus (2 sps);			
300	1 pelicanichthys; 1 pontachelus; few shrimp;			
400	of 3 sps; 1 hermit; 1 gephyrean; simple sponges			
500	attached to sponge spicules; few compound			
600	sponges; 2 sp. pennatulids; few simple corals;			
700	anemones attached to sponge spicules; 2 sps			
800	urchins; stropod shells; dentalium; 11 sps			
900	gastropods; 1 kind polychaete; 1 gorgonian;			
1000	barnacles attached to urchin spines.			

REMARKS:

Very little life. Very few copepods, ophal-  
rogonas, and blue shrimp. Much floating  
weed with live beetles all entangled.

No. *Dr. 3908* Date *15 May, '02*Sigsbee Machine. Reel. *Navy*Turns *276* Cor. + *28* Depth *304 fms*Shot or lead *36 lb.*Bottom *fine wh. S. M.*Bottom temperature *43.8*No. of thermometer *98233* Cor. *0*Corrected temperature *42.8* *54.5° N.*Air *73* Surface *75* Drift *2'*Trawl or dredge *S'*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

*11.02.50* *11.08.50*

0

*03.40* *08.00*

100

*04.50* *07.05*

200

*11.05.25* *11.06.00*~~300~~

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*11.10.00* *24.10*\* *25.00**26.10**19.50**13.50**05.50**11.33.20* *12.04.10**Also dredge and**Dr. 3908*

Diamond Head Light No. 1, N 21° E., 6 9/10'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Nearly overcast, misty.			
50	from N.E. - Smooth Sea.			
100	Blake Trawl, 6 kinds crustacea; 2 kinds			
200	gephyreans, simple sponges; 1 large anemone;			
300	3 kinds starfish; several spatangoids; small			
400	elypeastrid shells; few small fungoid corals;			
500	dentulium; pteropod shells; few macrurus			
600	of 2 sps; 1 pelicanichthys; few gastropods			
700	and lamellibranchs, of several kinds; 1			
800	pennatulid.			
900				
1000				

REMARKS:

Surface net out at 11.25 a.m. 10"  
 " " " 11.45 " ) 10"  
 " " over " 11.50 " ) 10"  
 " in " 12 m. )

\* 1/2 m. 1/2 m.  
 1 Bottle floating freely alive; few copepods; sphaero-  
 zoon; 1 small fish, 1 blue shrimp.

No. *3518*Date *June 22*Machine. *#1*Reel. *Heavy*Turns *250* Cor. + *28*Depth *308*Shot or lead *36 lbs.*Bottom *fm wh S & M.*Bottom temperature *43.5*No. of thermometer *78233*Cor. *0*Corrected temperature *43.5*Air *75* Surface *75*Drift *(N 50° E 1 2/10')*Trawl or dredge *S' dredge*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

*12-43.00**59.15*

100

*47.20**57.15*

200

*50.15**56.10*

300

*52.10**55.05*

400

*54.05**54.00*

500

*55.00**52.55*

600

*56.00**51.50*

700

*57.00**50.45*

800

*58.00**49.40*

900

*59.00**48.35*

1000

*00.00**47.30*

1100

*01.00**46.25*

1200

*02.00**45.20*

1300

*03.00**44.15*

1400

*04.00**43.10*

1500

*05.00**42.05*

1600

*06.00**41.00*

1700

*07.00**40.00*

1800

*08.00**39.00*

1900

*09.00**38.00*

2000

*10.00**37.00*

2100

*11.00**36.00*

2200

*12.00**35.00*

2300

*13.00**34.00*

2400

*14.00**33.00*

Diamond Shoal Light, N 31° E, 5 1/2'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
3500	3500	3500
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Blake Trawl =			
50	5 kinds prawns; 2 kinds hermits;			
100	1 broken antedon; 1 crab; few spatangoids;			
200	1 urchin; 2 kinds pennatulids; large			
300	sponges; 3 kinds pelocyfods; dentalium;			
400	pteropod shells; small gephyreans; several			
500	annelids; many tubes; 1 pelicanichthys;			
600	small macrurus of 2 kinds; 1 stomoptyx;			
700	barnacles on sea-urchin spines.			
800				
900				
1000				

REMARKS:

No.

4178

Date

May 18 1882

Machine

Reel

Sigsbee

Turns

273

Cor. +

29

Depth

3' 22 fms

Shot or lead

26 lbs

Bottom

wh S. gy. m.

Bottom temperature

43.2

No. of thermometer

75233

Cor.

0

Corrected temperature

43.2

Air

76

Surface

76

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

2-01

08.45

0

01.45

07.15

100

02.55

06.50

200

04.10

05.40

273

200

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

3709



*Diamond Drill Light, No. 20' 5, 2 1/2*

*01C  
100m*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

3910

Date

5 May 2

Machine.

Reel.

Turns

283

Cor. +

28

Depth

311 fms

Shot or lead

36 lbs

Bottom

for it gy S M.

Bottom temperature

33.7

No. of thermometer

70

Cor.

Corrected temperature

43.7

3130 H.

Air

73

Surface

76

Drift

1 1/10'

Trawl or dredge

11' Tanner

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

3-31.10	38.1	0	3-45.20	07.35
3-31.10	37.15	100	49.30	56.00
3-31.10	36.10	200	50.30	56.00
33.40	35.10	283	51.30	52.30
		300	52.30	47.00
		400	53.30	47.15
		500	4:02.15	47.30
		600	54.30	47.30
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Head Light, N 7° E., 12 <sup>5</sup>/<sub>10</sub>''

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
4600	246	3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tanner Trawl =			
50	Numerous prawns of 4 kinds; 1 hermit;			
100	several broken antedon; several pentachelids;			
200	many cephyreans of 2 sps; 1 broken			
300	brisinga; 1 kind starfish; 2 kinds			
400	pennatulids; 2 kinds anemones on			
500	sponges, pteropods; 1 ophiurid; several			
600	holothurians; 2 kinds annelids; several			
700	larval crabs; 1 gastropod; 1 pteropod;			
800	isothya; 11 kinds nudibranchs; 1 broken			
900	1 broken nemertean; 1 small nudibranch.			
1000				

REMARKS:

*Gray*

7/10/1907

No. *3911*. Date *7/10/1907*  
*Machine*. / Reel. *Machine*  
 Turns *306* Cor. + *31* Depth *337 fms*  
 Shot or lead *#*  
 Bottom *fine gy S. M.*  
 Bottom temperature *43.2*  
 No. of thermometer *98233* Cor. *0*  
 Corrected temperature *43.2* (*N 51° W*)  
 Air *74*. Surface *76*. Drift *2'*  
 Trawl or dredge *11 ft Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5.15.10</i>	<i>5.20.45</i>	0	<i>5.25.00</i>	<i>5.25.00</i>
<i>14.00</i>	<i>20.00</i>	100	<i>28.50</i>	<i>48.00</i>
<i>15.00</i>	<i>19.10</i>	200	<i>32.35</i>	<i>43.00</i>
<i>16.25</i>	<i>18.10</i>	300	<i>35.50</i>	<i>38.00</i>
<i>5.17.35</i>	<i>5.18.00</i>	<i>306</i>	<i>41.00</i>	<i>32.00</i>
		400	<i>44.50</i>	<i>27.30</i>
		500	<i>5.48.00</i>	<i>61.00</i>
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1<sup>st</sup> Surface haul:  
 3 blue macrurus;  
 full lge blue Calamies;  
 small copepods, not  
 numerous; 1 octopus;  
 1 Coleopter; sphaeromyces;  
 sagitta; pteropoda shells;  
 2<sup>nd</sup> Surface Haul:  
 3 fish; few minute  
 calpae; 1 (?) schizopod;  
 (These in addition to  
 material in first haul)  
 Octopus, beetle, & blue  
 macrurus, lacking  
 from above. Copepods,  
 calamies, saphirina. etc  
 about same.

3<sup>rd</sup> Surface haul:  
 Additional to  
 last = 1 medusa.  
 Lacking = fishes  
 4<sup>th</sup> Surface haul:  
 Additional to last:  
 2 ooles & other fish;  
 1 blue macruran; 3 sp  
 stomatopods; copepods;  
 about twice as many  
 + mostly large.  
 Lacking = medusa.

Diamond Head Light, N 10° E., 11.0'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

4600 240

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Clear and cloudy mist.			
100	breaze. - misty. -			
200	Tanner Trawl =			
300	hymenaster; 3 kinds prawns; 2 munida-			
400	like crustaceans; gorgonian; 1 lamellibranch;			
500	1 gastropod; 1 pennatulid; anemone attached			
600	to spicules; dentalium; 1 clypeastrid;			
700	maiid crab; 1 ascidian; 4 kinds of			
800	macrurids; 1 pelecognichthys; peristie-			
900	dion			
1000				

REMARKS:

Surface net over at 5.34 a.m. ) 17  
 " " " " 5.37 " )  
 " " " over " 5.35 " ) 15  
 " " " " 6.10 " )  
 " " " over " 6.15 " ) 16  
 " " " in " 6.31 " )  
 " " " over " 6.35 " ) 15  
 " " " " 6.40 " )

Date 5<sup>th</sup> May 1902

Have

Depth 334 fms

Shot or lead 36

Bottom

Bottom temperature

Cor. 15

Corrected temperature

*Drift* (1910)

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.01.30		0	7.07.30	8.00.00
7.02.00		100		10.00
7.02.30		200	1.00.00	31.00
7.03.00		300	2.00.00	31.46
7.03.30		400	3.00.00	22.30
		500	32.00	17.00
		600	36.20	12.00
		700	38.00	8.08.30
1 <sup>st</sup> and 2 <sup>d</sup>		800		
Surface Hauls =		900	3 <sup>d</sup> Surface Haul:	
Added to last surf		1000	Total quantity	
haul at st # 3911 =		1100	less; noticeably	
1 or 2 kinds stomatopoda;		1200	copepods. Number of	
put kinds crabs; phyllo-		1300	crabs (megalops)	
stoma; 1 lge pteropod;		1400	increasing.	
ctenophore; medusa;		1500		
1 holothurid; small		1600	4 <sup>th</sup> Surface Haul	
(small, not identified);		1700	marked decrease	
2 kinds starfish - 1 imp;		1800	from last in quantity	
1 large pteropod; 1 small		1900	noticeably crabs +	
1 small pteropod; 1 small		2000	copepods.	
1 small pteropod; 1 small		2100		
1 small pteropod; 1 small		2200		
1 small pteropod; 1 small		2300		
1 small pteropod; 1 small		2400		

OK  
J. J. J.  
J. J. J.

SERIAL TEMPERATURES.118<sup>m</sup>

REMARKS:		
1	11	7.13.07
2	12	7.25.15
3	13	7.31.15
4	14	7.41.15
5	15	7.51.15
6	16	8.01.15
7	17	8.11.15
8	18	8.21.15
9	19	8.31.15

No. *Hy 4179* Date *5 May*  
*Sigsbee* Machine. #1 Reel. *Navy*  
 Turns *282* Cor. + *28* Depth *310 fms.*

~~Shot or lead~~ *36 Lbs.*

Bottom *fine gy S. M.*

Bottom temperature *44.-*

No. of thermometer *98232* Cor. *0*

Corrected temperature *44*

Air *71* Surface *76* Drift

Trawl or dredge

*Pm* SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>0. 00. 00</i>	<i>0. 05. 30</i>	0		
<i>0. 01. 00</i>	<i>0. 04. 30</i>	100		
<i>02. 00</i>	<i>0. 03. 30</i>	200		
<i>0. 02. 00</i>	<i>0. 02. 30</i>	<i>282</i> <del>300</del>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
<i>0. 03. 00</i>		1100		
<i>0. 04. 00</i>		1200		
<i>0. 05. 00</i>		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



*Diamond Head Light N 20° E, 8 mi*

*OK  
HCO  
5/27*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>61.5</i>	<i>1000</i>	<i>0.0</i>	<i>61.5</i>
50	<i>61.5</i>	<i>1000</i>	<i>0.0</i>	<i>61.5</i>
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Surface not over it*  
"  
"  
"  
"  
"  
"

No.

3913

Date

May 16

1902

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

71

Surface

71

Drift

(N 45° W, 1/2 mi)

Trawl or dredge

Sigsbee beam trawl

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

Surface  
16net  
"1160  
116055  
557  
0

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Diamond Head Light, N 20° E, 17.0'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Oyster mounds light breeze from N. W. smooth sea.			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Surface net: Largely pink eupods in considerable numbers; many more than during the day; more than later hauls of #3912. Sagitta, 1 medusa; macrurus. No transparent crustacea; no polcs; no other fishes; no penaeus.

No. *3714*Date *May 6-02*Machine. *Reel*Reel. *Reel*Turns *263* Cor. + *26*Depth *289 fms*Shot or lead *36 lbs*Bottom *gy. S. M.*

Bottom temperature

No. of thermometer

Corrected temperature

Air *71*Surface *74*Drift *N 49° W.*Trawl or dredge *11' Tanner*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

*5.55*  
28-*5.57*  
30-

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*6.00**10.00**19.45**22.50**24.00**30.00**33.50**14.50**15.30**11.30**07.40**7.13.15**58.50**57.00*

Diamond Head Light, N 23° 10' E., 16<sup>14</sup> / 10'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300	Tanner Trawl: 2 knids (3) macrurids;			
400	1 malthopsis; 3 knids (many) echinoids;			
500	3 bunches sponge spicules; 4 knids (awl) prawns;			
600	2 tectibranchs; 3 hymenasters; brisinga;			
700	few asteroids (1 knid); 1 holothurian;			
800	several dentalia; anemones on sponge spi-			
900	cules; few annelids.			
1000				

REMARKS:

Surface net - at 6.25 am, in 5 6.25

Surface net - many pink copepods; siphonaria; sagitta; 5 blue penaeus; 2 small fishes; 1 larval squilla. Not more than 1/3 amount of #3913.

No. *3915* Date *6 May 02*Machine. *#1* Reel. *V. 1*Turns *265* Cor. + *27* Depth *292 fms.*Shot or lead *35 lb.*Bottom *gy. S. R.*Bottom temperature *46.0*No. of thermometer *98533* Cor. *0*Corrected temperature *46.0*Air *72* Surface *76* Drift *2 1/10*Trawl or dredge *11 Tanner*

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Diamond Head Light, N 30° E., 15 1/10'

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

"Will do!"

No. 1180

Date

July 1902

Machine.

Reel.

Turns 272 Cor. +

27

Depth

279 fms.

~~Shot or lead~~

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

100

200

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



*Diamond Drill Log No. 24030'E, 24 1/2*

*5.00.*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Log 1817*  
 No. *191* Date *1902*  
*Machine.* Reel *1302*  
 Turns *272* Cor. + *27* Depth *299*  
~~Shot or lead~~ *36*  
 Bottom *gy. m.*  
 Bottom temperature  
 No. of thermometer *98* Cor.  
 Corrected temperature  
 Air Surface *76* Drift  
 Trawl or dredge *8 ft*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		30
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Rock Light, N 40° E., 9 7/10'

9 1/2  
9 1/10

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Blake Trawl: 3 Macrurus; hermit; 3 kinds starfish; sev'l ophiurans; several clypeastrid shells; sev'l spatangoids; 3 kinds prawns; 1 crab; several Dentalium; 2 kinds gastropods; many steropod shells; (?) anemone; several lamellibranchs; 1 argonauta shell.			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 13917

Date

Sigsbee Machine. #1 Reel.

Turns 300 Cor. + 30

Depth

Shot or lead 36 lbs.

Bottom gy S. M.

Bottom temperature

No. of thermometer 98233. Cor.

Corrected temperature 61.4

Air 76. Surface Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Diamond Head Light, N 50° 30' E, 10<sup>3</sup>/<sub>16</sub>'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tanner Trawl:			
50	Larval squilla; 6 kinds (many) prawns;			
100	few murex; 1 pentacheltes; several			
200	hermits; 1 pennatulid; 1 gorgonian;			
300	anemones attached to sponge spicules &			
400	shells; few simple corals; 2 gephyreans;			
500	few anemones; many opuriatans; 2 kinds			
600	starfish; 2 kinds spatangoids; 2 kinds			
700	urchins; 2 kinds barnacles on urchin			
800	spines; many dentolium; several			
900	gastropods; 6 kinds; 1 kind lamelli-			
1000	bivalves; many (4 kinds) macrurus;			
1 stenopteryx; 1 peristedion; 2 malthopsis.				
REMARKS:				

No. *D-3918*. Date *6 May, '02*.*Sigsbee* Machine *1* Reel. Navy.Turns *267* Cor. + *27* Depth *294*~~Shot or lead~~ *36 Lbs.*Bottom *wh. S. M.*Bottom temperature *44.5*No. of thermometer *96200* Cor.Corrected temperature *44.5* *31.1*Air *75* Surface *75* Drift *0.0*Trawl or dredge *11' 5"*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

*1.25.30* *1.35.45**0**2.07**100**2.30**200**2.57**267**3.10.05**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400*

Diamondhead Light, N 63° E., 8.0'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tanner Trawl:			
50	many (4 sps) starfish; few spatangoids;			
100	several ophiurans; 4 kinds urchins;			
200	many (3 kinds) prawns; several muricea;			
300	hermit; geophyrea; nudibranch;			
400	2 (?) antelopis; 3 mallophysis. 2 kinds			
500	macrurus; stomiata; myctophum;			
600	tubicolous; annelids; 2 kinds of			
700	attached barnacles.			
800				
900				
1000				

REMARKS:

Dr. 3919

Date

6

Machine.

Reel.

234

Cor. +

23

Depth

25

36

Lb.

G. S.

45.

98200.

Cor. 0

45.6

(N 17° W.)

75.

Surface

75.

Drift

1'

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

0

0

21.0

100

100

100

21.0

200

200

200

16.0

300

300

300

11.0

400

400

400

06.15

500

500

500

01.50

600

600

600

700

700

700

800

800

800

900

900

900

1000

1000

1000

1100

1100

1100

1200

1200

1200

1300

1300

1300

1400

1400

1400

1500

1500

1500

1600

1600

1600

1700

1700

1700

1800

1800

1800

1900

1900

1900

2000

2000

2000

2100

2100

2100

2200

2200

2200

2300

2300

2300

2400

2400

2400



Diamond Head Light, N 84° E., 7 1/10'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tanner Trawl:			
50	2 kinds starfish (few); 2 kinds			
100	(few)urchins; 1 ophiuran; holo-			
200	thurian; 4 kinds crabs; 1 hermit;			
300	1 kind prawn; 4 tectibranchs;			
400	2 kinds pennatulids; hydroid;			
500	1 peristedion hians; 4 peristedion.			
600	(sp.?)			
700				
800				
900				
1000				

REMARKS:

No. *4181* Date *May 6 02.*  
*Lucas* Machine. *#1* Reel. *Lucas*  
 Turns *200* Cor. + *20* Depth *220*  
 Shot or lead *36*  
 Bottom *gy. S. Co. B.*  
 Bottom temperature *41*  
 No. of thermometer *95233* Cor. *0*  
 Corrected temperature *41*  
 Air *72* Surface *70* Drift  
 Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>0.4.00.00</i>	<i>35.52</i>	0		
<i>0.4.00.10</i>	<i>34.55</i>	100		
<i>0.4.00.20</i>	<i>33.45</i>	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Diamond Star Light, S 89° E, 8 1/10'*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Dropped Record Book overboard  
but recovered it. Distinct  
remark!*

507.

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

280 fms.

Shot or lead

36 lbs.

Bottom

gy. s. sh.

Bottom temperature

No. of thermometer

98233

Cor. 0

Corrected temperature

Air

75

Surface

26

Drift

13/10'

Trawl or dredge

11' 2' 11/2 m

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
16.10	17.50	0		
		100		
		200		
18	19.00	300		
		400		
		500		15.40
		600		
		700		16.10
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Head Light, N 74° E., 8 9/10'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tanner Trawl:			
50	Pentachelis; many munida;			
100	brachyuran; 4 kinds prawns;			
200	hermit; attached anemone; brisinga;			
300	2 kinds urchins; 1 opatargoid;			
400	1 pennatulid; 1 symphurus;			
500	peristedion hiatus; peristedion, sp.			
600	nov.; melanostoma; chlorophthal-			
700	mus; myetophum; polyipnus;			
800	2 macrurus, pelicanichthys.			
900				
1000				

REMARKS:

H4 4182

7/1/02

Turns 241 Cor. +

24

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

44.40

51.20

0

45.30

50.10

100

46.20

49.10

200

47.10

48.00

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Diamond Star Light, N 60° E, 7 1/2'*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3921* Date *6 May '12*Machine. *Hand* Reel. *Hand*Turns *13* Cor. *4* Depth *13 fms*

Shot or lead

Bottom *Co. S. bk. sh.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *72* Surface *75*

Drift

Trawl or dredge *Electric light + 8 fms*

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
		0	<i>8.45</i>	<i>9.30</i>
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Diamond Head Light, S 63° E., 39/10'			
Night anchorage		2500	of cloudless %
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	dip nets; very rich haul =			
50				
100	Stomatopods, schizopods;			
200	macrurans; brachyurans;			
300	ostracods; copepods; hetero-			
400	nereis; isopods &			
500	Fishes - many kinds in			
600	considerable numbers; mostly			
700	young, not identified at sight.			
800				
900				
1000				

REMARKS:

No. 3112

Date

Machine. /

Reel. 460

Turns 250

Cor. +

Depth 251

Shot or lead 35

Bottom

Bottom temperature

No. of thermometer 98233

Cor. 0

Corrected temperature

Air

Surface 7

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

		0		
		100	04.20	47.20
		200	07.30	43.10
		300	10.30	38.40
		400	13.10	33.40
		500	16.30	29.30
		600	19.30	24.40
		700	22.30	20.30
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Drill Light, N 73° E., 13<sup>3</sup>/<sub>10</sub>'

OK  
100'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700	<del>Not results</del>			
800	Nothing complete			
900				
1000				

REMARKS:

1st 8' 10' ...  
Not satisfactory ...  
... of ...

No.

2923

Date

7 May 1902

Machine

Reel

Turns

Cor. +

Depth

369

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

9.54.30	10.03.30	0	10.07.20	11.01.40
55.30	04.25	100	10.10.00	10.58.00
56.30	01.25	200	10.12.20	10.54.30
57.30	00.30	300	10.14.40	10.51.00
58.30	10:00.00	400	10.17.00	10.47.30
		500	10.19.20	10.44.00
		600	10.21.40	10.40.30
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Head Light, N 72° 30' E., 14 5/10'

OK  
1000

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Wind NE 15 of 10 miles.  
Riveted - glass of eye for down  
if under light visibility - down quickly  
No gas in bottles

No. *1183* Date *7/1/00*  
 Machine. *1* Reel. *1*  
 Turns *271* Cor.  $\pm$  *36* Depth *271*  
~~Shot or lead~~  
 Bottom *Co. R.*  
 Bottom temperature  
 No. of thermometer *98233* Cor. *0*  
 Corrected temperature *42.9*  
 Air *76* Surface *76* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10 28.40</i>		0		
<i>11.40</i>		100		
<i>30.30</i>	<i>33.50</i>	200		
<i>32.20</i>	<i>11.23.00</i>	<i>271</i>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*This mark*  
*at end of*  
*20 39.23*

*Diamond Head Light, N 65° E, 19 1/10*

*CIL  
3000*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Hy. 4184.

Date

7 May '02.

Sigsbee Machine. #1 Reel. Navy.

Turns 264 Cor. + 26

Depth 290 fms.

Shot or lead 36 Lbs.

Bottom

R. co S.

Bottom temperature

44. -

No. of thermometer

98333.

Cor. .

Corrected temperature

44

Air

75.

Surface

75.

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

12. 5.10

1.02.05

0

56.10

1.01.00

100

57.10

1.00.00

200

12. 5.10

12. 5.15

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



*Diamond Head Light, N. 29° 45' E., 19 1/10'*

*OK  
15/12  
19*

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. = 47.9

No. *Dr. 3924*. Date *7 May '02*.*Sigsbee* Machine *111* Reel. *Navy*Turns *274* Cor. + *27*Depth *301 fms.*Shot or lead *36 lb.*Bottom *fine yk S.M. R.*Bottom temperature *44. -*No. of thermometer *98233*. Cor. *0*Corrected temperature *44. -*Air *75.* Surface *75.* Drift *(29° W., 14/10')*Trawl or dredge *11' Trawl.*

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>1.24.50</i>	<i>1.53.05</i>	0	<i>1.47.55</i>	<i>3.19.35</i>
<i>1.25.15</i>	<i>1.51.00</i>	100	<i>51.55</i>	<i>15.35</i>
<i>1.25.40</i>	<i>1.49.00</i>	200	<i>55.15</i>	<i>11.</i>
<i>1.26.05</i>	<i>1.47.00</i>	<i>274</i> 300	<i>58.40</i>	<i>57.</i>
		400	<i>2-01.30</i>	
		500	<i>05.20</i>	
		600	<i>09.00</i>	
		<del>700</del>	<i>11.50</i>	<i>2.31.00</i>
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Head Light, N 23° 30' E, 12 1/10'

OK  
H.C.O.

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100	Lost the 11' (some from 100)			
200	2 35 ft. therm. - No. 35			
300	No. 35; <del>therm. - No. 35</del>			
400	<del>therm. - No. 35</del> <del>therm. - No. 35</del>			
500	therm. - No. 35			
600				
700				
800	Nothing found			
900				
1000				

REMARKS:

No. *Hy. 4185*. Date *July 24 02.*

*Cisco* Machine. Reel. *1100*

Turns *307* Cor. + *31*

Depth *338 fms.*

Shot or lead *35 lbs.*

Bottom *br. S.*

Bottom temperature *43. -*

No. of thermometer *61233*. Cor. *0*

Corrected temperature *43*

Air *75*. Surface *76*. Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8:15.00</i>		0		
<i>8:16.00</i>		100		
<i>8:17.00</i>	<i>50.00</i>	200		
<i>8:18.00</i>		300		
<i>8:19.00</i>	<i>1:00.00</i>	<del>400</del>		
		500		
		600		
		700		
		800		
		900		
	<i>1:42.00</i>	1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Diamond Drill Rig, No. 272, 11 1/2*

*JK  
1000*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

O. L. 49.9

No. *3925* Date *May 7 1902*

Machine. *Sigsbee* Reel. *Lucy*

Turns *272* Cor. + *29* Depth *223 fms*

Shot or lead *36 lbs.*

Bottom *gy. S. M. R.*

Bottom temperature

No. of thermometer *95233* Cor. *0*

Corrected temperature *43.7*

Air *72* Surface *70* Drift *1.45*

Trawl or dredge *8 fms. with*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2-55.40</i>	<i>02.05</i>	0	<i>4-26.10</i>	<i>08-</i>
<i>56.20</i>	<i>01-</i>	100	<i>10.10</i>	<i>5-03-</i>
<i>58.20</i>	<i>4-00.15</i>	200	<i>13.20</i>	<i>59.30</i>
<i>58.30</i>	<i>5.10</i>	300	<i>16.55</i>	<i>55.40</i>
		400	<i>20.20</i>	<i>51.45</i>
		500	<i>23.40</i>	<i>48=</i>
		600	<i>27.30</i>	<i>4-43.15</i>
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Light, N 79° 30' E., 10 2/10'

OK  
J. C. C.

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

— with Alixan. B. B. B.

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

"Tanner haul":  
3 ~~obs~~ macrurids, 2 unknown;  
scorpaena; gorgonian; very few  
prowns; few antedon; few dentalium;  
worm tubes with few annelids;  
few lamellibranchs.

## REMARKS:

Bridge stop, carried away on  
one side; not done.

*Hutchinson*

No. *4156* Date *May 7-02*  
*Sigsbee* Machine. # *1* Reel. *Heavy*

Turns *272* Cor. + *27* Depth *299 fms*

Shot or lead *36*  
Bottom *lt. br. s. m.*

Bottom temperature *44.0*

No. of thermometer *98233* Cor. *0*

Corrected temperature *44.0*

Air *75* Surface *76* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5-05.35</i>	<i>11.22</i>	0		
<i>06.20</i>	<i>11.37</i>	100		
<i>07.10</i>	<i>07.50</i>	200		
<i>08--</i>	<i>5-27-</i>	<i>272</i>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



*Diamond Head Light, N 36° E, 13 1/10'*

*St. 100*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

3926

Date

May 10 1907

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

74.0

Surface

75.0

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Honolulu to Laysan Id.,  
 21° 13' N. 158° 43' W.

2500  
 2600  
 2700  
 2800  
 2900  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Surface Hauls: Some fine filamentous			
50	algae; many yg. crabs; many young			
100	octopus; many Holobates; salpa;			
200	larval polia; myctophum; larval			
300	squilla; cyphonophore bells; few			
400	copepods; larval peristedion; flying			
500	fish; sagitta; few macrurans;			
600	few ostracods; little Sphaerocorn.			
700	The first haul contained large quan-			
800	tity in which yg. crabs & octopus pre-			
900	dominated. The second haul showed			
1000	a great decrease in quantity, not 1/4			
	first. The third had many			

REMARKS:

Myctophum and Holobates, but few crabs and other animals. Fourth haul almost nothing but myctophum, which were in increased numbers. Fifth haul like 4th.

P.L. = 85.9

No. *Dr. 3927* Date *11 May, '02.**Sigsbee* Machine. *1* Reel. *Navy*Turns *2340* Cor. + *189*Depth *2529 fms.*Shot or lead *60 lbs.*Bottom *S. M.*

Bottom temperature

No. of thermometer *98233.*Cor. *+0.1*Corrected temperature *35.1*Air *74.*Surface *76.*

Drift

*N 70° W.*

Trawl or dredge

*Surface Net.*

## P.M. SOUNDING WIRE.

DOWN.	UP.	TURNS.
6.00.50	6.57.35	0
01.40	56.25	100
02.30	55.15	200
03.20	54.00	300
04.15	53.50	400
05.15	51.40	500
06.15	50.35	600
07.15	49.30	700
08.15	48.15	800
09.15	47.05	900
10.20	46.00	1000
11.20	44.50	1100
12.30	43.25	1200
13.40	42.30	1300
14.55	41.15	1400
16.10	40.10	1500
17.25	38.55	1600
18.40	37.40	1700
19.50	36.25	1800
21.05	35.10	1900
22.20	33.55	2000
23.40	32.25	2100
25.00	31.15	2200
26.20	29.50	2300
6.26.30	6.29.00	2340

## DREDGE ROPE.

DOWN.	UP.
<i>Surface Net =</i>	
<i>P.M. 7.23.06</i>	<i>7.13.05</i>
<i>7.18.10</i>	<i>7.28.15</i>
<i>7.33.10</i>	<i>7.43.30</i>
<i>7.47.20</i>	<i>7.57.30</i>
<i>8.02.30</i>	<i>8.12.40</i>
<i>8.17.00</i>	<i>8.27.00</i>
<i>4<sup>th</sup> haul contd =</i>	
<i>Crustacea in</i>	
<i>much less quantity -</i>	
<i>5<sup>th</sup> haul: Flying</i>	
<i>fish and myctophum;</i>	
<i>few holothurians; no squids</i>	
<i>or crabs; medusa, "bells,"</i>	
<i>small crustacea, espe-</i>	
<i>cially + others. Total</i>	
<i>quantity comparatively</i>	
<i>little;</i>	
<i>6<sup>th</sup> haul: Flying</i>	
<i>fish + myctophum</i>	
<i>in numbers; all</i>	
<i>others greatly reduced.</i>	

21° 31' N., 161° 55' W.

OK  
J.A.  
2

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4600	246	3500	
2340	57	3600	
<u>2260</u>	<u>189</u>	3700	
	2340	3800	
	<u>2529</u>	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
10				
25	Gentle Breeze fr. E. N. E. -			
50	Smooth Sea. - Clear and			
100	cloudy, misty.			
200	surface Net contents: Many larval			
300	squilla; few medusae (2 kinds); many			
400	pink copepods; few holobates.			
500	1 <sup>st</sup> haul: Large mass stomatopods; no			
600	crabs; many copepods; many very small			
700	larval fish; no myctophum; 1 flying fish.			
800	2 <sup>d</sup> haul: nearly equal amount of larval			
900	squilla, with few crabs; perhaps fewer			
1000	copepods, several myctophum, 1 argonauta,			
	few holobates; 1 medusa.			

3<sup>d</sup> haul: 2 or 3 larvae. REMARKS: Squids; few crabs; 1 medusa; few holobates; few copepods. The quantity and variety strikingly less. Several flying fish; several myctophum.

4<sup>th</sup> haul: Flying fish; several myctophum; few physalia; no squillas; few crabs; 1 pteropod; 1 phronima; few holobates; 1 zanthina; syphonophore bells as in previous hauls; calappa; few copepods. (Centracron)

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Surface Net  
 7-15 8-30  
 8-35 8-45

2-60

6-35

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211-

9-60

48-35